

Purchase Order Receipt Listing

Tuesday, August 01, 2017 2:41:39 PM

All amounts are calculated in domestic currency.

Page 1 of 1

All Vendors PO ID PO36986 Receipt Dates from 8/1/2017 to 8/1/2017
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

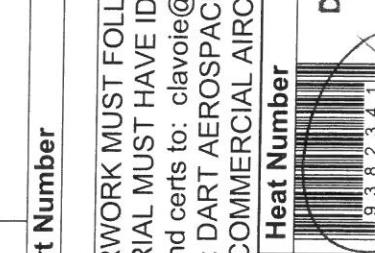


PACKING SLIP/
CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 1 of 1

Shipment No:3344442

Ship From:	Sold To:	Ship To:	Deliver To:
A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN
Shipment Details			
Date Shipped	F.O.B.	Freight Terms	Carrier
31-JUL-17	ORIGIN	Prepaid	LOCAL_FLEET
Final Destination Branch - TOR			
Order No	Line No	Item No	Description
4823222	1	752114.MO	1.2500.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT LENGTH TO 12 IN () X 144.5 IN (+ .1250/- .0000 IN) ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
Purchase Order No	Part Number	Ordered Qty	Invoice Qty
36986		1.00 PCS	1.00 PCS
Details			
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY			
ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S			
Email P/s and certs to: clavoie@dartaero.com			
END USER: DART AEROSPACE			
END USE: COMMERCIAL AIRCRAFT PARTS			
Delivery No.	Mill	Heat Number	Mech Id
121204882		 93823415039	PCS 5 0-39
		Width (IN)	Length (IN)
		1	224.3464

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description for credit.
Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned.

Reviewed by Authorized Castle Metals Representative: 
Date Printed: 31-JUL-2017 02:44:09 PM





PACKING SLIP/
CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

PACKING SLIP/

Page 1 of 1

Shipment No:3344442

Ship From:	Sold To:	Ship To:	Carrier	BOL No
A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	

LOCALLY LIVED
3344442-4

Final Destination Branch - TOR			
Order No	Line No	Item No	Description

48223222	6	21391	3.0000.4.0000.RECT.7075.T651.ALUMINUM.CF.144.0000 SPECIFICATIONS: AMS-QQ-A-22519
Purchase Order No		Part Number	Ordered Qty
36986			12.00 FT
Details	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavioe@dataaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS		
Delivery No.	Mill	Heat Number	Mech Id
121190997	ARCONIC INC	DAS 5	1
		 MA 2015073618-89	Width (IN)
			Length (IN)
			144.0000
			Shipped Qty (LBS)
			174.2520

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SEARCHED JUL 31 2017 Date: Name: *ct. Rosales* *801600-1*

Date Printed: 31-10-2017 02:44:09 PM



PACKING SLIP/
CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 1 of 2

Shipment No:3344442

Ship From:		Sold To:		Ship To:		Deliver To:	
A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped		F.O.B.		Freight Terms		Carrier	
31-JUL-17		ORIGIN		Prepaid		LOCAL_FLEET	
Shipment Details				Final Destination Branch - TOR			
Order No	Line No	Item No	Description	Part Number	Ordered Qty	Invoice Qty	
4823222	7	752241.MO	2.5000.PL.7075.T77351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 8.25 IN (+ .0310/- .0000 IN (GRAIN TO RUN ALONG 7.75")) X 7.75 IN (+ .0310/- .0000 IN (GRAIN TO RUN ALONG 7.75")) ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	YOUR ITEM NUMBER: D6101-007	20.00 PCS	20.00 PCS	
Purchase Order No 36986		ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dataero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS					
Delivery No.	Mill	Heat Number	Mech Id	Pcs	Width (IN)	Length (IN)	Shipped Qty(LBS)
121190924			20	9 3 8 9 1 5 3			3306337

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PACKING SLIP/
CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Reviewed by Authorized Castle Metals Representative:

Page 2 of 2



SHIPPED JUL 31 2017

M. Ransoh

Date: Name:

S. M. Ransoh

Page 2 of 2

INTERORG TRANSFER
PACKING SLIP/
CERTIFICATE OF CONFORMANCE

ABF C4L 595 354

Page 1 of 2

Shipment No:3338276

Ship From: A. M. CASTLE & CO. 4175 ROYAL DRIVE SUITE 600 KENNESAW, GA 30144 USA	Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 24-JUL-17	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier ABF
Shipment Details		Final Destination Branch - TOR	
Order No 4823222	Line No 8	Item No 752114.MO	Description 1.2500 PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT LENGTH TO 10 IN (+ .1250/- .0000 IN) X 144.5 IN () ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
Purchase Order No 36986	Part Number	Ordered Qty 1.00 PCS	Invoice Qty 1.00 PCS
Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			
Delivery No. 121204882	Mill	Heat Number  DAS 5 9-89	Mech Id 1
			Width (IN) 1
			Length (IN) 186.9553
			Shipped Qty(LBS)

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

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Date Printed: 24-JUL-2017 01:43:52 PM

INTERORG TRANSFER
PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date: Name: 7/34/17 Stuart S.



8/17/17

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

Date Printed: 24-JUL-2017 01:43:52 PM

B3 - 8 - 2

Constellium



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY
4175 ROYAL DRIVE
KENNESAW GA
30144
US

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A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110502703	4075	INCLUSION	Serial: 20170220-0110502703	Pg 1 of 2
CUSTOMER PURCHASE ORDER NO. & ITEM 410933				Constellium ORDER NO. 196570		
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1232 mm	LENGTH 144.50000 in 3,670 mm	CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH						
CUSTOMER SPECIFICATION AMS 4045K						Steve Good Steve Good - Laboratory Manager
PART NUMBER 752114		B/L NUMBER 75896		DATE SHIPPED 02/21/2017		
WT. SHIPPED 2670.000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.		

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A
AMS QQ-A-250/12A
AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE
ASTM B209-14
BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE
CMMPO25 REV U
CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
DPS 4 713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
PS 2121P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001453411	890.000	403.697	9382341	DAS1		
1001453411	890.000	403.697	9382341	502		
1001453411	890.000	403.697	9382341	9893		

Lot: 9382341

Tensile - Room Temperature (US)

Direction	Tests	Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	81.3	81.6	71.5	71.8	13.0	13.0	

Constellium



CERTIFIED TEST REPORT

Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY
4175 ROYAL DRIVE
KENNESAW GA
30144
US

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A M CASTLE
1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE 110502703 4075 INCLUSION			Serial:20170220-0110502703 Pg 2 of 2																										
CUSTOMER PURCHASE ORDER NO. & ITEM 410933				Constellium ORDER NO. 196570																									
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm																								
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH																													
CUSTOMER SPECIFICATION AMS 4045K																													
PART NUMBER 752114		B/L NUMBER 75896		DATE SHIPPED 02/21/2017																									
WT. SHIPPED 2670.000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.																									
<i>Steve Good</i> Steve Good - Laboratory Manager																													
Tensile - Room Temperature (SI) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Direction</th> <th rowspan="2">Tests</th> <th colspan="2">Ultimate (N/MM2)</th> <th colspan="2">Yield (N/MM2)</th> <th colspan="2">Elongation (%)</th> <th rowspan="2">Report</th> </tr> <tr> <th>Min</th> <th>Max</th> <th>Min</th> <th>Max</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>LT</td> <td>02</td> <td>561</td> <td>563</td> <td>493</td> <td>495</td> <td>13.0</td> <td>13.0</td> <td></td> </tr> </tbody> </table>						Direction	Tests	Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report	Min	Max	Min	Max	Min	Max	LT	02	561	563	493	495	13.0	13.0	
Direction	Tests	Ultimate (N/MM2)		Yield (N/MM2)				Elongation (%)		Report																			
		Min	Max	Min	Max	Min	Max																						
LT	02	561	563	493	495	13.0	13.0																						
Chemistry (Actual) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Core</th> <th>SI</th> <th>FE</th> <th>CU</th> <th>MN</th> <th>MG</th> <th>CR</th> <th>ZN</th> <th>TI</th> <th>ZR</th> </tr> </thead> <tbody> <tr> <td>Core</td> <td>0.06</td> <td>0.17</td> <td>1.52</td> <td>0.03</td> <td>2.58</td> <td>0.21</td> <td>5.58</td> <td>0.04</td> <td>0.01</td> </tr> </tbody> </table>						Core	SI	FE	CU	MN	MG	CR	ZN	TI	ZR	Core	0.06	0.17	1.52	0.03	2.58	0.21	5.58	0.04	0.01				
Core	SI	FE	CU	MN	MG	CR	ZN	TI	ZR																				
Core	0.06	0.17	1.52	0.03	2.58	0.21	5.58	0.04	0.01																				
OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER																													
All material contained in this lot was cast and manufactured in the USA QUALITY TEXTS: AMC CA 15403A R 7																													
<p>THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.</p> <p>CHEMISTRY BY OES: ARKSPARK</p> <p>CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT</p> <p>WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399</p> <p>WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557</p> <p>DUNS Number: 090570149; CAGE Code: 1YWL9</p> <p>Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.</p> <p>"END OF CERTIFICATION"</p>																													

B3-8-2

Constellium



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY
4175 ROYAL DRIVE
KENNESAW GA
30144
US

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A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110502703	4075	INCLUSION	Serial:20170220-0110502703	Pg 1 of 2	
CUSTOMER PURCHASE ORDER NO. & ITEM 410933				Constellium ORDER NO. 196570		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager	
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.5000 in 1.232 mm	LENGTH 144.5000 in 3,670 mm		
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH							
CUSTOMER SPECIFICATION AMS 4045K							
PART NUMBER 752114		B/L NUMBER 75896		DATE SHIPPED 02/21/2017			
WT. SHIPPED 2670 000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.			
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS: ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A AMS QQ-A-250/12A AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE ASTM B209-14 BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE CMMP025 REV U CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE DPS 4 713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE GAMP 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE PS 2121P 2010 CLASS A 100% SONIC MINUS DEADZONE							
Load Details							
Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot	
1001453411	890.000	403.697	9382341	01			
1001453411	890.000	403.697	9382341	02			
1001453411	890.000	403.697	9382341	03			
Lot: 9382341							
Tensile - Room Temperature (US)							
Direction	Tests	Ultimate (KSI)	Yield (KSI)	Elongation (%)	Report		
		Min	Max	Min	Max	Min	Max
LT	02	81.3	81.6	71.5	71.8	13.0	13.0

Constellium



CERTIFIED TEST REPORT

Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY
4175 ROYAL DRIVE
KENNESAW GA
30144
US

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A M CASTLE
1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110502703	4075	INCLUSION	Serial:20170220-0110502703	Pg 2 of 2																												
CUSTOMER PURCHASE ORDER NO. & ITEM 410933				Constellium ORDER NO. 196570																														
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm	<p>CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA</p> <p><i>Steve Good</i></p> <p>Steve Good - Laboratory Manager</p>																												
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PART NUMBER 752114		B/L NUMBER 75896		DATE SHIPPED 02/21/2017																														
WT. SHIPPED 2670 000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.																														
<table border="1"><thead><tr><th colspan="4">Tensile - Room Temperature (SI)</th><th colspan="2">Yield (N/MM²)</th><th colspan="2">Elongation (%)</th><th>Report</th></tr><tr><th>Direction</th><th>Tests</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th><th></th></tr></thead><tbody><tr><td>LT</td><td>02</td><td>561</td><td>563</td><td>493</td><td>495</td><td>13.0</td><td>13.0</td><td></td></tr></tbody></table>								Tensile - Room Temperature (SI)				Yield (N/MM ²)		Elongation (%)		Report	Direction	Tests	Min	Max	Min	Max	Min	Max		LT	02	561	563	493	495	13.0	13.0	
Tensile - Room Temperature (SI)				Yield (N/MM ²)		Elongation (%)		Report																										
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Chemistry (Actual)																																		
Core	SI 0.06	FE 0.17	CU 1.52	MN 0.03	MG 2.58	CR 0.21	ZN 5.58	TI 0.04	ZR 0.01																									
OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER																																		
All material contained in this lot was cast and manufactured in the USA																																		
QUALITY TEXTS: AMC CA-15403A R 7																																		
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CHEMISTRY BY OES: ARKSPARK																																		
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WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399																																		
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DUNS Number: 090570149; CAGE Code: 1YWLS																																		
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.																																		
"END OF CERTIFICATION"																																		

Certified Inspection Report

04/24/15
13:02:57

Alcoa Inc.
Massena Operations

Customer P.O. No.

Customer Part No.



Ship To **A M Castle & Co**

336828

Alcoa Order No.

Govt. Contract No.

ALCOA

Customer

AM

Co

3050 South Hydraulic
Wichita, KS 67216

A97075-40 Rev 15 w/exceptions & comments

per Z. Wang email dtd 10/8/12

ASTMB211-12E1

AMS4123H

QQA-22519E

AMS-QQ-A-22519A

✓

Material conforms to T6 reqmts

Date Shipped **04/24/15**
Alloy - Temper **7075-T651**

Weight Shipped **876 lbs**
Size **3.00000 x 4.00000 IN**

Product **CFRB-CF RECT Specific Length**
Shape **REC**
Config **12 FT**

BOL **000162890**

ORR

Specifications:

✓

A97075-40 Rev 15 w/exceptions & comments

per Z. Wang email dtd 10/8/12

ASTMB211-12E1

AMS4123H

QQA-22519E

AMS-QQ-A-22519A

✓

Material conforms to T6 reqmts

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under a quality management system registered ISO/TS 16949 and AS9100. Melted and manufactured in the USA.

Steven F. Marsh, Quality Manager

John D. Marsh

04/24/15

04/24/15

TEST REQUIREMENTS	Test U.T.S.	Test T.Y.S.	Test %Elong	Test	Test	Test	Test	Test	Test
	Max: 77.0	Min: 66.0	07.0						

Test Results	No. of Tests	Test U.T.S.	Test T.Y.S.	Test %Elong	Test	Test	Test	Test	Test
Lot # Work Order # MA20150736	7	Max: 083.9	76.9	14.0					

TEST ABBREVIATIONS	U.T.S.	Ultimate Tensile Strength KSI	T.Y.S.	Tensile Yield Strength KSI 2% offset	%Elong	Elongation % in 2"
--------------------	--------	-------------------------------	--------	--------------------------------------	--------	--------------------

Aluminum Association Chemical Composition Limits (in Weight %)	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL
ALLOY 7075	MAX 0.40	0.50	2.0	0.30	2.9	0.28	6.7	0.20	0.05	0.15	Rem

Actual Started Chemistry	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
LOTWORK ORDER MA20150736	0.05	0.05	0.14	0.12	7.7	7.6	0.02	0.02	2.5	2.5	0.20

NOTES:

Material compliant with DFARS 252.235-7001 (Buy American Act)
Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.
This alloy meets the requirements of EU 2011/65/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.



Certified Inspection Report

04124115
13:02:57

Alcoa Inc.
Massena Operations

Park Avenue East, Massena, NY 13662

ALCOA

Customer

Castle A M & Co

Customer P.O. No.

336828

Customer Part No.

(21391)

Product **CFRB-CF RECT Specific Length**

BoL

000162890

Govt. Contract No.

Ship To **A M Castle & Company**

3050 South Hydraulic

Wichita, KS 67216

Alcoa Order No.

MMC-B5610-001

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under a quality management system registered to ISO 9001:2008, AS9100, and AS9100D. Melted and manufactured in the USA.

Steven F. Marsh, Quality Manager

Date Shipped **04/24/15** Weight Shipped **876 lbs** Product **CFRB-CF RECT Specific Length**
Alloy - Temper **7075-T651** Size **3.00000 x 4.00000 IN** Shape **REC** Config **12 FT**

Specifications:

A97075-40 Rev 15 w/exceptions & comments
per Z. Wang email dtd 10/8/12

ASTM B211-12E1

AMS4123H

QQA-2259E

AMS-QQ-A-225/9A

Material conforms to TG reqmts

TEST REQUIREMENTS		Test	Test	Test	Test	Test	Test	Test	Test	Test
		U.T.S.	T.Y.S.	%Elong						
Max:	77.0	66.0	07.0							
Min:										

Test Results	No. of Lot / Work Order	No. of Test	Test	Test	Test	Test	Test	Test	Test	Test
			U.T.S.	T.Y.S.	%Elong					
MA20150736	T	Max:	083.9	76.9	14.0					
		Min:	083.9	76.9	14.0					

TEST ABBREVIATIONS

U.T.S. - Ultimate Tensile Strength KSI

T.Y.S. - Tensile Yield Strength KSI, 2% offset

%Elong - Elongation % in 2"

Aluminum Association Chemical Composition Limits (in Weight %)

ALLOY	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL
7075	MAX 0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem

Actual Started Chemistry

LOT/WORK ORDER	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL
MA20150736	MAX 0.05	0.14	1.7	0.02	2.5	0.20	5.8	0.03	LT 0.05	LT 0.15	Rem

NOTES:

Material compliant with DFARS 252.225-7001 (Buy American Act)
Material is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.
This alloy meets the requirements of EU 2011/65/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.



B3 - 8 - 2

Constellium



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

S
H
I
P
T
O

A M CASTLE & COMPANY
4175 ROYAL DRIVE
KENNESAW GA
30144
US

S
O
L
D
T
O

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE	110502703	4075	INCLUSION	Serial:20170220-0110502703	Pg 1 of 2
CUSTOMER PURCHASE ORDER NO. & ITEM 410933			Constellium ORDER NO. 190570		
ALLOT 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH					
CUSTOMER SPECIFICATION AMS 4045K					
PART NUMBER 752114		B/L NUMBER 75896		DATE SHIPPED 02/21/2017	
WT. SHIPPED 2670 000 LB	NO. OF PIECES 000003	GOVT. CONTRACT NO.			

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC
859 Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

Steve Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 15-2013 100% SONIC W/ 0.125" DEADZONE Class A
AMS QQ-A-250/12A
AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE
ASTM B209-14
BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE
CMMP025 REV U
CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
DPS 4 713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001453411	890.000	403.697	9382341	01		
1001453411	890.000	403.697	9382341	02		
1001453411	890.000	403.697	9382341	03		

Lot: 9382341 DAS 5
Tensile - Room Temperature (US)

Direction	Tests	Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	81.3	81.6	71.5	71.8	13.0	13.0	

Constellium
CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC
S
H
I
P
T
O
A M CASTLE & COMPANY
4175 ROYAL DRIVE
KENNESAW GA
30144
US
S
O
L
D
T
O**A M CASTLE**
1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110502703	4075	INCLUSION	Serial:20170220-0110502703	Pg 2 of 2																												
CUSTOMER PURCHASE ORDER NO. & ITEM 410933				Constellium ORDER NO. 196570		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager																												
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm																													
ITEM ORDERED SPEC PLATE, SAWED MIL FINISH																																		
CUSTOMER SPECIFICATION AMS 4045K																																		
PART NUMBER 752114		B/L NUMBER 75896		DATE SHIPPED 02/21/2017																														
WT. SHIPPED 2670.000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.																														
Tensile - Room Temperature (SI) <table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Ultimate (N/MM2)</th> <th colspan="2">Yield (N/MM2)</th> <th colspan="2">Elongation (%)</th> <th>Report</th> </tr> <tr> <th>Direction</th> <th>Tests</th> <th>Min</th> <th>Max</th> <th>Min</th> <th>Max</th> <th>Min</th> <th>Max</th> <th></th> </tr> </thead> <tbody> <tr> <td>LT</td> <td>02</td> <td>561</td> <td>563</td> <td>493</td> <td>495</td> <td>13.0</td> <td>13.0</td> <td></td> </tr> </tbody> </table>										Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report	Direction	Tests	Min	Max	Min	Max	Min	Max		LT	02	561	563	493	495	13.0	13.0	
		Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report																										
Direction	Tests	Min	Max	Min	Max	Min	Max																											
LT	02	561	563	493	495	13.0	13.0																											
Chemistry (Actual) <table border="1"> <thead> <tr> <th></th> <th>SI</th> <th>FE</th> <th>CU</th> <th>MN</th> <th>MG</th> <th>CR</th> <th>ZN</th> <th>TI</th> <th>ZR</th> </tr> </thead> <tbody> <tr> <td>Core</td> <td>0.06</td> <td>0.17</td> <td>1.52</td> <td>0.03</td> <td>2.58</td> <td>0.21</td> <td>5.58</td> <td>0.04</td> <td>0.01</td> </tr> </tbody> </table>									SI	FE	CU	MN	MG	CR	ZN	TI	ZR	Core	0.06	0.17	1.52	0.03	2.58	0.21	5.58	0.04	0.01							
	SI	FE	CU	MN	MG	CR	ZN	TI	ZR																									
Core	0.06	0.17	1.52	0.03	2.58	0.21	5.58	0.04	0.01																									
OTHERS-EACH: .05 MAX, OTHERS TOTAL: .15 MAX, AL REMAINDER																																		
All material contained in this lot was cast and manufactured in the USA																																		
QUALITY TEXTS: AMC CA 15403A R 7																																		
<p>THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.</p> <p>CHEMISTRY BY CES: ARKSPARK</p> <p>CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT</p> <p>WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399</p> <p>WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557</p> <p>DUNS Number: 090570149; CAGE Code: 1YWLB</p> <p>Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.</p> <p>"END OF CERTIFICATION"</p>																																		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M70757651,250X10,000
 DATE: AUG 15 2017

PO / BATCH NO.: PO36986/M138202/164013

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.238
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	AMS QQ A250/12
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	HT #9382341
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>5</u>		SIGNED OFF BY: _____
DATE: <u>08/15/2017</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12
OR AMS 4046
OR ASTM B206

DAS

5

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4048
OR ASTM B209

OR

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4048
OR ASTM B209

△ PART NUMBER: M7075T6S|TTT|X|W|WWWW|
WHERE "TTT" = THICKNESS (IN INCHES)
AND "W|WWWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

△ PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

△

△ PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

WHERE "TTT" = THICKNESS (IN INCHES)
AND "W|WWWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063

EG. 3.5" WIDE BY 0.50" THICK PLATE = M7075T6S.500X3.500

△ PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

RELEASED

2017 JUN 19 ✓
ECN 17-574

REV. 0

DATE

B		ADD-REF TO PLATE: T651 TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CART16-49)		CP	17.05.05
A		NEW ISSUE		RF	10.11.08
REV.	RF	DESCRIPTION		BY	DATE
DESIGN	RF	DART AEROSPACE LTD			
DRAWN	CP	HAWKESBURY, ONTARIO, CANADA			
CHECKED	ML	DRAWING NO.			
MFG. APPR.	LL	M7075T6S			
APPROVED	WM	TITLE			
DE APPR.	DS	7075-T6 SHEET/PLATE SPEC			
DATE	17.05.05	SCALE			
		NTS			

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purpose other than

the original intended

purpose without

written permission from Dart Aerospace Ltd.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M70751651.250X12.000
 DATE: AUG 15 2017

PO / BATCH NO.: PO3C986/M13820/164013

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.235
 SHEET SIZE ORDERED: 1/4A
 SHEET SIZE RECEIVED: 1/4A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<u>Y</u> <u>N</u>	
CORRECT FINISH	<u>Y</u> <u>N</u>	
CORROSION	<u>Y</u> <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> <u>N</u>	<i>AMS QQ-A-250/1</i>
CORRECT THICKNESS	<u>Y</u> <u>N</u>	
PHOTO REQUIRED	<u>Y</u> <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> <u>N</u>	<i>HTI 9382341</i>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> <u>N</u>	
CORRECT M# ON THE MATERIAL	<u>Y</u> <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<u>Y</u> <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<u>Y</u> <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>8-89</u>	SIGNED OFF BY: _____
DATE: <u>AUG 15 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250112 OR AMS-QQ-A-250112
OR AMS 4045
OR ASTM B209
OR

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250113 OR AMS-QQ-A-250113
OR AMS 4048 / 4049
OR ASTM B209

△ PURCHASE MATERIAL: 7075-T6S TTT X W WWW
PART NUMBER: M7075T6S |TTT| X |W| WWW |
WHERE "TTT" = THICKNESS (IN INCHES)
AND "W" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
EG. 0.063" THICK SHEET = M7075T6S 063
EG. 3.5" WIDE BY 0.50" THICK PLATE = M7075T6S 500X3.500

△ PREFERRED SIZE:
TTT BY 4FT BY 10FT FOR SHEET

C

B

APPROVED		RELEASED	
REV. A	ECN 17-574	2017 JUN 19 ✓	
DESIGN DRAWN	RF	DART AEROSPACE LTD	HAWKESBURY, ONTARIO, CANADA
CHECKED	CP	DRAWING NO.	REV. B
MFG. APPR.	ML	M7075T6S	SHEET 1 OF 1
APPROVED DE APPR.	LL	TITLE	SCALE
DATE	DS-17.05.05	7075-T6 SHEET/PLATE SPEC	NTS
		© 2017 DART AEROSPACE LTD	COPIRIGHT
		ALL INFORMATION CONTAINED HEREIN IS UNPUBLISHED PROPRIETARY INFORMATION.	ALL INFORMATION CONTAINED HEREIN IS UNPUBLISHED PROPRIETARY INFORMATION.
		NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF DART AEROSPACE LTD.	NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 17075+6B3,000X4,000
 DATE: AUG 16 2017

PO / BATCH NO.: PO36986/M13800/164013

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3"X4"
 THICKNESS RECEIVED: 3"X4"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<i>AMS QQ 4225/9</i>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<i>H1 # MA20150736</i>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	<u>5</u>	SIGNED OFF BY:	
DATE:	<u>8-89</u> <u>AUG 16 2017</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DART

DESIGN <i>PH</i>	DRAWN BY <i>CE</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>PH</i>	APPROVED <i>PH</i>	DRAWING NO. 7075T6B	REV. B SHEET 1 OF 1
DATE 06.11.24		TITLE 7075-T6 BAR	SCALE NTS
A 05.07.20		NEW ISSUE	
B 06.11.24		REMOVED "ROUND" FROM BAR DESCRIPTION	

RELEASED
6.11.24

PURCHASE MATERIAL: 7075-T6 (OR T651/ T6510/ T6511/ T62) ALUMINUM BAR
PER ~~AMS-QQ-A-225/9~~ (OR AMS 4122/ 4123/ 4186/ 4187) OR
PER ~~AMS-QQ-A-200/11 DAS~~

5
9-89

PART NUMBER: M7075T6B | T.TTT | X | WW.WWW | WHERE T.TTT = THICKNESS IN INCHES
THICK | | WIDTH | WW.WWW = WIDTH IN INCHES

EG. 1.0" x 1.5" BAR = M7075T6B1.000X01.500

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OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36986

Purchase Order Date 7/11/2017
PO Print Date 7/11/2017

Page Number 1 of 5

Order From :
METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

EMAILED
E JUL 12 2017

Contact Name

Buyer Chantal Lavoie

Vendor Phone

Customer POID 10127-2607

Ship To Contact

Customer Tax # Net 30

Ship To Phone

Terms USD

Ship Via:

Currency Destination-Collect

Ship Acct:

FedEx PI collect

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D6101-007P	7075-T7351 8.25X7.75X2.5	7/28/2017	Yes	7/28/2017	20.00 Each	\$56.11	\$1,122.20
3	D6102-013P	6061-T6 7.0X6.5X2.0	7/28/2017	Yes	7/28/2017	60.00 Each	\$31.65	\$1,899.00

AS PER DWG D6101 REV. B
B164013
MATERIAL: 7075-T7351 (QQ-A-250/12)
SIZE: 7.750" X 8.250" X 2.50" THICK
GRAIN DIRECTION ALONG: 7.750" LENGTH
TOLERANCE AS PER QUOTE +.030"/-.000"

AS PER DWG D6102 REV. D
B164014
SIZE: 7.000" X 6.500" X 2.00" THICK
GRAIN DIRECTION ALONG 6.500"
MATERIAL 6061-T6/T6511 QQ-A-250/11
TOLERANCE AS PER QUOTE +.030"/-.000"

Note:

7/11/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36986**

Purchase Order Date 7/11/2017

PO Print Date 7/11/2017

Page Number 2 of 5

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Buyer Chantal Lavoie

Customer POID

10127-2607

Customer Tax #

Net 30

Terms

USD

Currency

FOB

Destination-Collect

Line Total:

\$1,899.00

4 D6104-007P

17-4 SS Roundbar 4.50"Od

7/28/2017

Yes

7/28/2017

10.00

Each

\$68.53

\$685.30

AS PER DWG D6104 REV. B

B164015

MATERIAL: 17-4 PH AS PER AMS 4643 OR AISI 630

SIZE: 4.50" X 5.10" LONG

Line Total:

\$685.30

5 M7075T6SI.250X10.000

7075-T6S Sheet 1.250"
THICK x 10.000" WIDE

7/28/2017 FN

Yes

7/28/2017

12.00

f

\$76.40

\$916.80

MAT'L 7075-T6/T62 ALUMINUM SHEET

SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET

SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

SP781

Line Total:

\$916.80

Note:

7/11/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36986

Purchase Order Date 7/11/2017

PO Print Date 7/11/2017

Page Number 3 of 5

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB Destination-Collect

Ship To Contact
Ship To Phone
Ship Via: FedEx PI collect
Ship Acct:

6 M7075T6S1.250X12.000

7075-T6S Sheet 1.250"
THICK x 12.000" WIDE

7/28/2017 FN
Yes
7/28/2017

12.00
f

\$86.42 \$1,037.04

MAT'L 7075-T6/T62 ALUMINUM SHEET
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

Line Total: \$1,037.04

SD P 8-1

7 M7075T6S2.000X6.000

7075-T6S Sheet 2.000"
THICK x 6.000" WIDE

7/28/2017 FN
Yes
7/28/2017

12.00
f

\$71.35 \$856.20

MAT'L 7075-T6/T62 ALUMINUM SHEET
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

Line Total: \$856.20

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36986

Purchase Order Date 7/11/2017

PO Print Date 7/11/2017

Page Number 4 of 5

Order From :
METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Buyer Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency USD

FOB Destination-Collect

8	M7075T6S3.000X2.750	7075-T6S Sheet 3.000" thick x 2.750" wide	7/28/2017	12.00	\$52.42	\$629.04
			Yes	f		
			7/28/2017			

Line Total: \$629.04

9	M7075T6S1.750X4.500	M7075T6 SHEET 1.750 THICK X 4.500 WIDE	7/28/2017 FN	12.00	\$48.90	\$586.80
			Yes	f		
			7/28/2017			

MAT'L 7075-T6/T62 ALUMINUM SHEET
SPEC'S QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET
SPEC'S QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

Line Total: \$586.80

Note:

Chantal Lavoie

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: Monday, July 10, 2017 3:49 PM
To: Chantal Lavoie
Subject: RE: quote

Hi Chantal,

7075-t6 sheet or bar 1.250" x 10" x 12 ft

\$ 76.40 Ft 2-3 weeks (plate)

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

From: Desbiens, Marc [mailto:mdesbien@amcastle.com]

Sent: Monday, July 10, 2017 1:02 PM

To: Chantal Lavoie <clavoie@dartaero.com>

Subject: RE: quote

Hi Chantal,

price and delivery on material.

7075-T6 SHEET OR BAR 1.250" X 12" X 12 FT \$ 86.42 Ft 2-3 weeks

7075-T6 SHEET OR BAR 2" X 6" X 12 FT \$ 71.35 Ft 2-3 weeks

7075-T6 SHEET OR BAR 2.750" X 2.750" X 12 FT Offer 3" x 2.750" \$ 52.42 Ft 2-3 weeks

~~7075-T6 SHEET OR BAR 1.250" X 6" X 12 FT \$ 45.92 Ft 2-3 weeks~~

7075-T6 SHEET OR BAR 1.750" X 4.500" X 12 FT \$ 48.90 Ft 2-3 weeks

7075-T6 SHEET OR BAR 3" X 4" X 12 FT (bar) \$ 94.85 Ft 2 weeks

Thanks

Marc Desbiens
Inside sales representative